

A high resolution sheet metal scanner employs machine vision to check a sheet metal part or the like for accuracy of punched or drilled holes or other structure. A high-resolution line-scanning camera mounted to an X-Y table, located in an environmentally sealed lower assembly. The sheet metal part is placed upon a transparent support plate atop of the lower assembly. The line-scan camera is precision focused on the top surface of the glass support plate. A fixed light source, i.e., illuminator, is situated above the glass plate, and supplies a uniform bright light to the entire viewing field. The camera is transported in the X and Y directions on a carriage of the X-Y table. Damping devices can be incorporated into legs of the unit to accommodate for shocks and vibrations. A computer control may be used for controlling the camera and the X-Y table. Software in the computer constructs the two-dimensional image of the part from line scans, and may import an existing CAD drawing file for comparison.

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099																																																																																																																																																																																																																																				
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